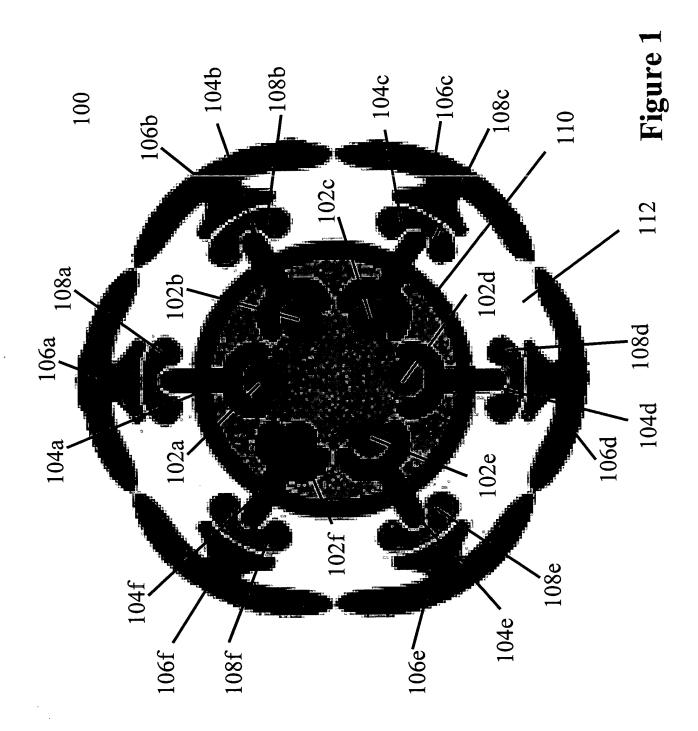
Applicants: Vitaliano et al.

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Title: Quantum Information Processing Elements and
Quantum Information Processing Platforms Using Such Elements
Atty.: John V. Bianco Reg. No. 36,748
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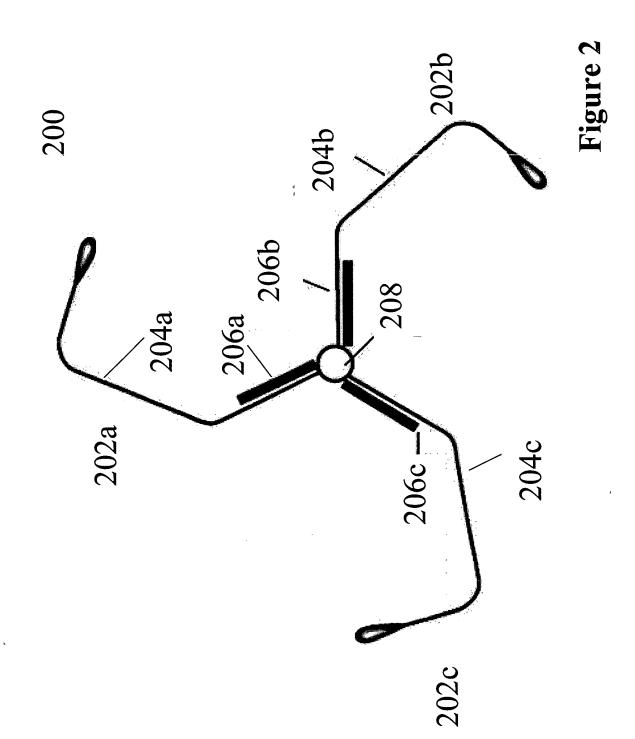
Title: Quantum Information Processing Elements and
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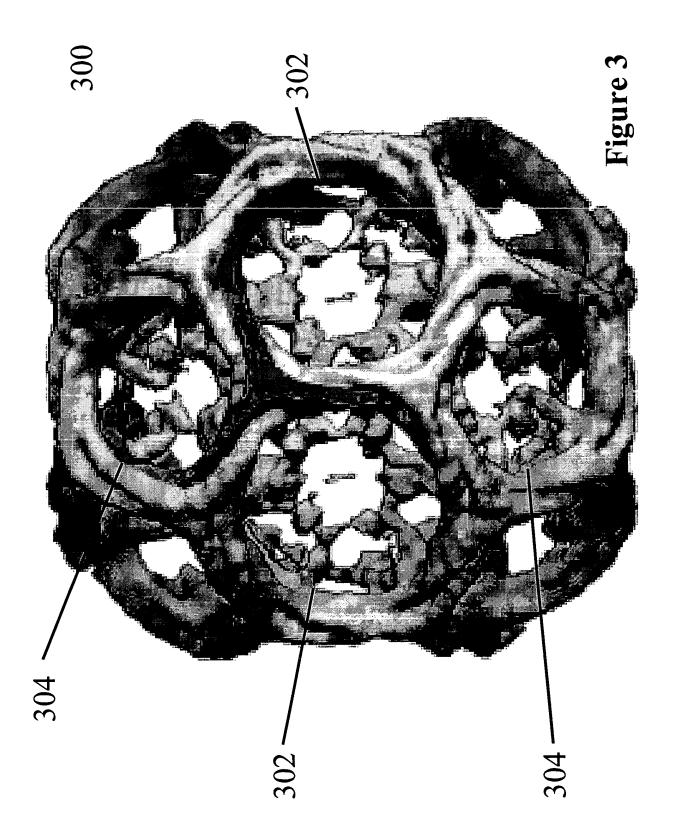
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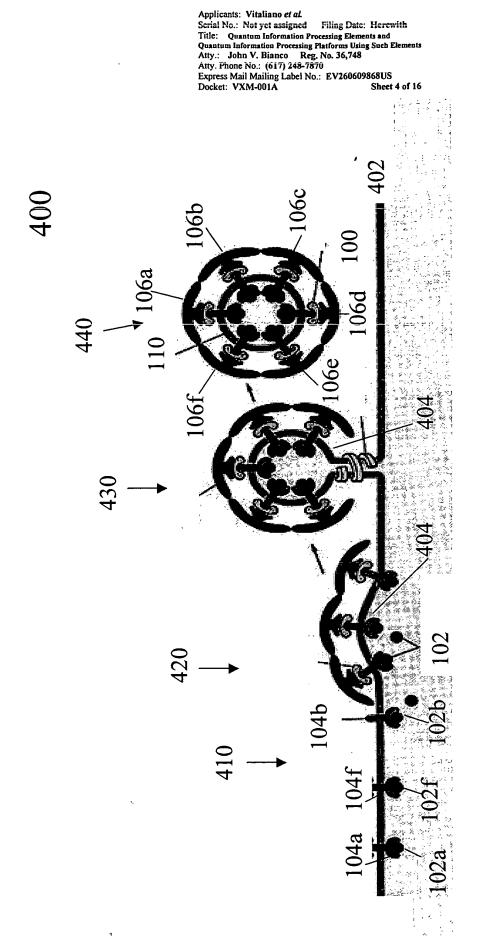
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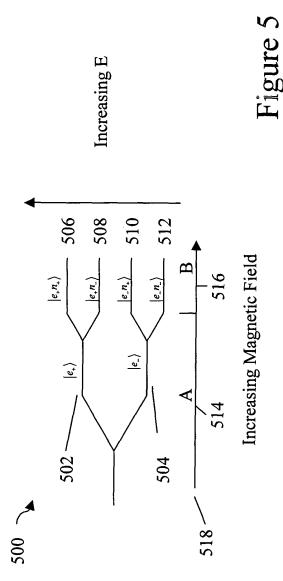
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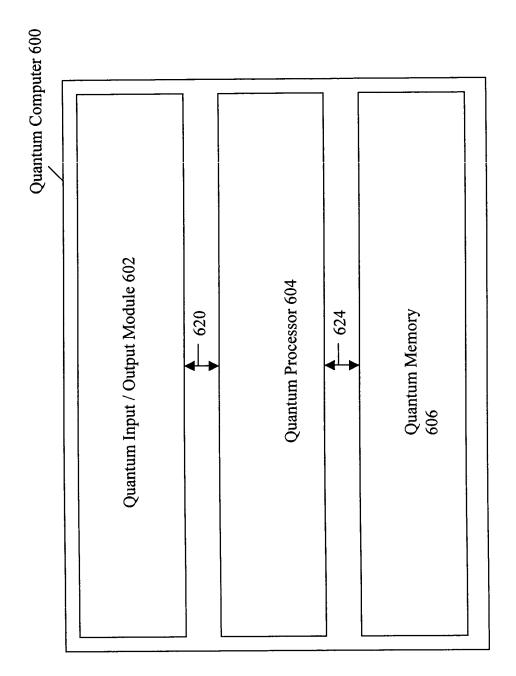


Figure 6

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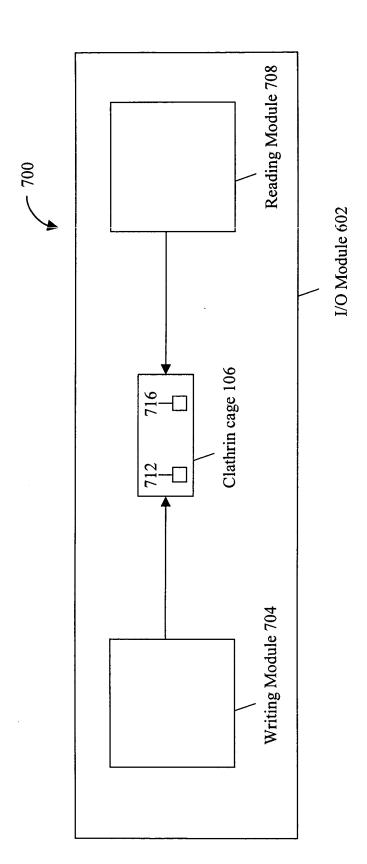
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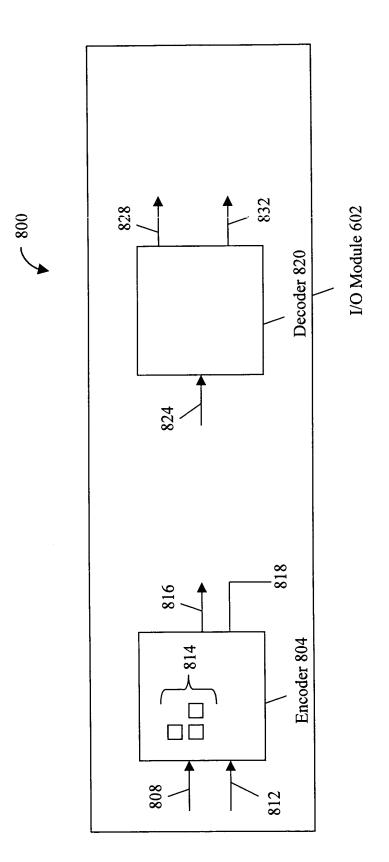
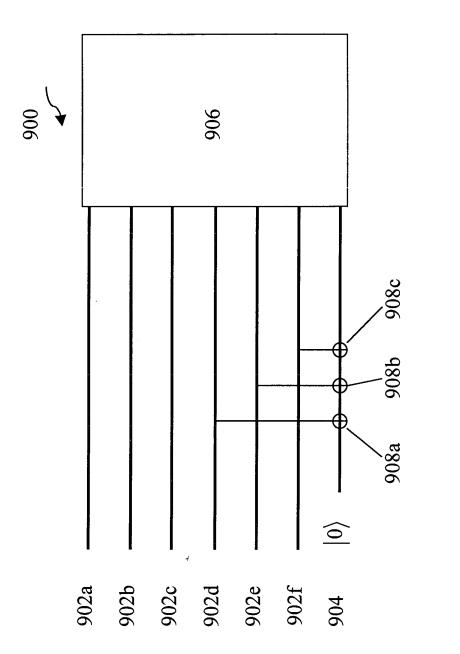


Figure 8

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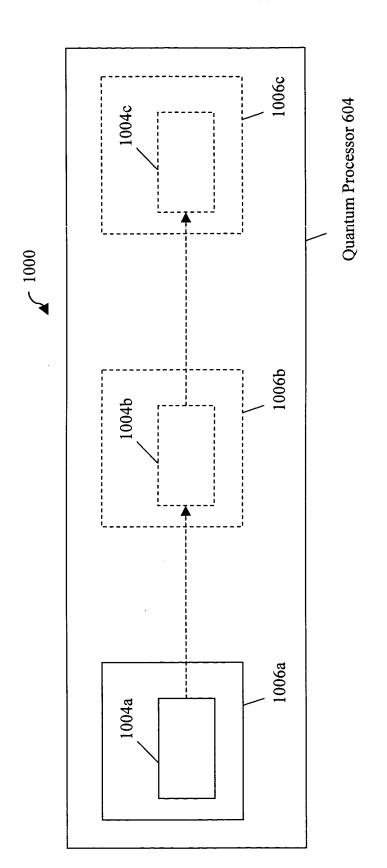


Figure 10

Express Mail Mailing Label No.: EV260609868US Sheet 11 of 16 Docket: VXM-001A c⊕ (a ~ b) - 1212 1200 Figure 12 or controlled-NOT Figure 1 1110 Toffoli gate a⊕ b — XOR gate, a 1220 source target 1102 - a1202 - a

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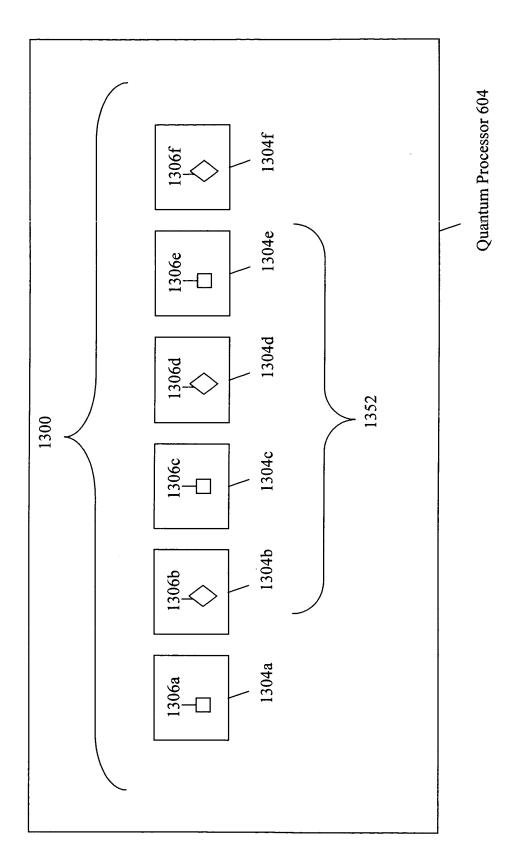
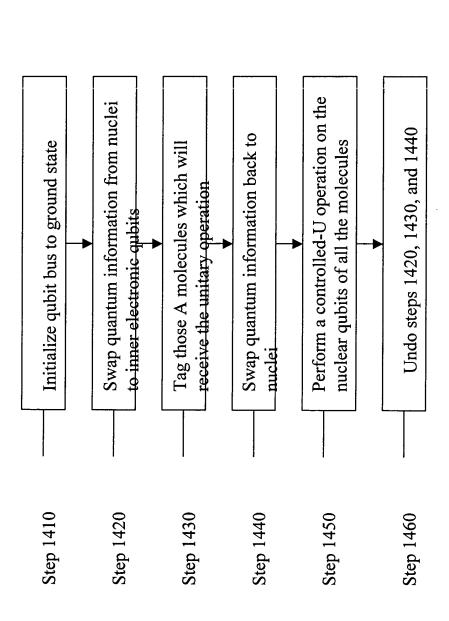


Figure 13



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Figure 14

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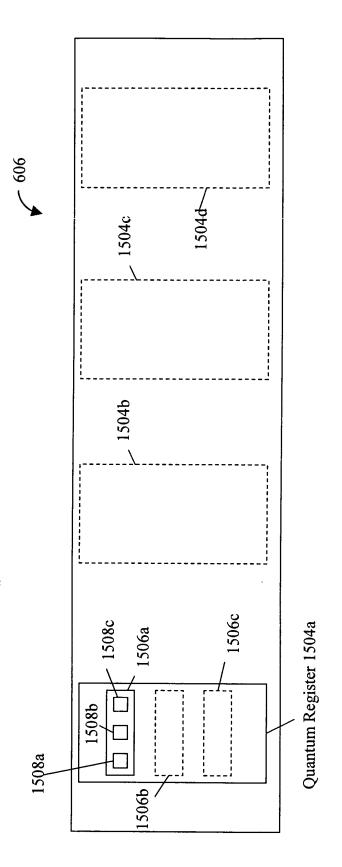


Figure 15

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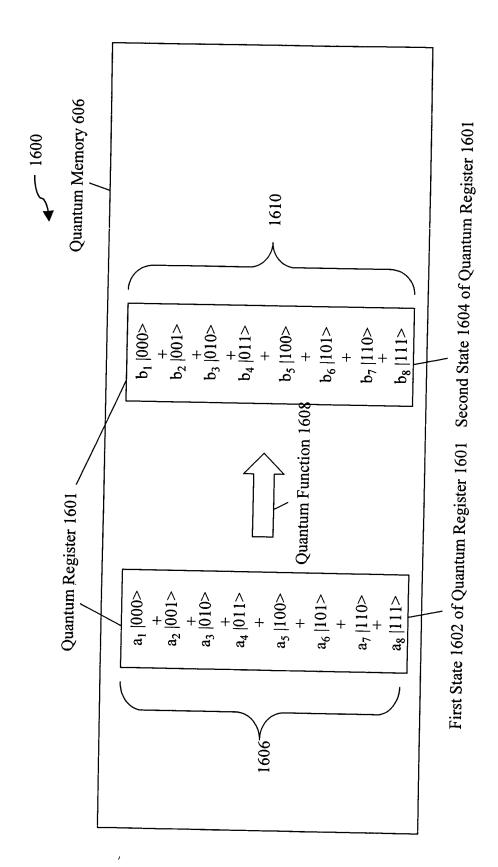


Figure 16

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Figure 17

